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## Patent Abstracts of Japan

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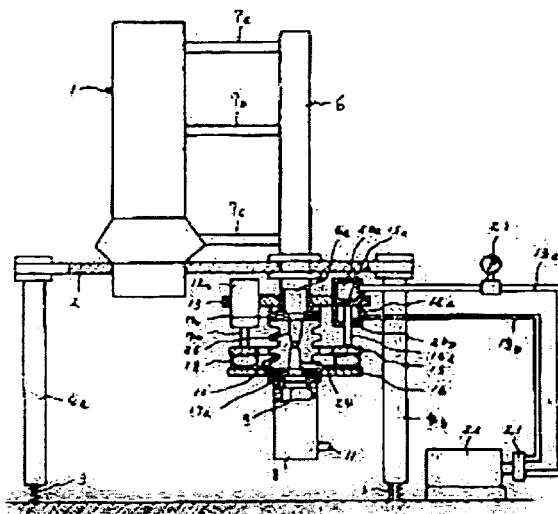
APPLICATION DATE : 25-10-79  
APPLICATION NUMBER : 54137946

APPLICANT : JEOL LTD;

INVENTOR : KITAJIMA HIROYUKI;

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TITLE : EXHAUST SYSTEM IN ELECTRON MICROSCOPE OR THE LIKE



**ABSTRACT** : **PURPOSE:** To prevent resolution of an electron microscope from degradation by a mechanism for cancelling back pressure received by a molecular pump through an annular closed type air spring to damp vibration of the molecular pump by a bellows or closed type spring.

**CONSTITUTION:** When a pressure plate 15 is pressed downward by compressed air introduced under a predetermined pressure from a compressor 22 in the upper chamber 20a side of three cylinders 12a fixed to a main exhaust pipe 6 through a mounting plate 13, the interior of a body tube 1 of a transmission type electron microscope is evacuated. Thus, since back pressure received by a molecular pump 8 through an annular closed type air spring 18 is structurally cancelled, the back pressure can be cancelled by the evacuation of the body tube 1. Also, since vibration of the molecular pump 8 can be damped by a bellows 10 and closed type air spring 18, resolution of the electron microscope can be prevented from degradation.

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